

# DUAL CREDIT ONLINE

## COURSE DESCRIPTIONS

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### **ART 100 Art and Experience**

3 CREDITS

This course introduces the visual arts in the context of history and culture providing students with knowledge and practice in the skills necessary to make art a greater part of everyday life. It involves analysis of art works and introduces terminology and concepts for understanding the study of style, design, technique, iconography and function of art within various cultural matrices. This course provides an introduction to the western artistic and cultural tradition and provides students with knowledge of and practice in the skills necessary to make art a greater part of everyday life. In addition to learning to recognize and explain art from the major periods and styles in the western tradition, students also practice describing and reflecting upon their experience of particular works and investigate the creation of art.

### **ART 105 Art History II**

3 CREDITS

This course covers an illustrated study of the history of art. Vocabulary of the basic art elements will be covered as well as the study of the Renaissance through Contemporary movements. Major works of paintings, sculptures and architecture will be explored.

### **BIO 100 Life Science**

4 CREDITS

This course covers a study of the biological principles that apply to all living systems. A survey of living organisms with an emphasis on how life functions on earth and how living things have adapted over time is explored. Laboratory activities give students the opportunity to apply biological principles presented in lecture.

### **BIO 135 Nutrition for Living**

3 CREDITS

This course is a survey of human nutrition. Students will study the different nutrients found in foods, food grouping systems, the human digestive system, body weight maintenance, immunity and disease prevention, nutrition throughout the lifespan and food processing technology.

### **BUS 115 Personal Finance**

3 CREDITS – (NON-CORE 42)

This course is a survey of personal financial planning. Topics covered include: personal budgeting, investments, insurance, credit, housing and retirement planning. The goals are for students to learn the fundamentals of financial planning so they can make informed choices related to spending, saving, borrowing and investing that lead to long-term financial security.

### **COM 105 Public Speaking**

3 CREDITS

This is an introductory course in research, composition, delivery, and evaluation of speeches for a variety of purposes and occasions. Students develop skills in critical listening and analysis through small group and individual activities.

### **ENG 101 Composition I**

3 CREDITS

This course introduces students to college-level writing and thinking through personal narrative, analytical and research-supported writing. The processes of critical thinking, composing, revising and editing are emphasized. Students will learn basic research skills and documentation techniques.

### **ENG 102 Composition II**

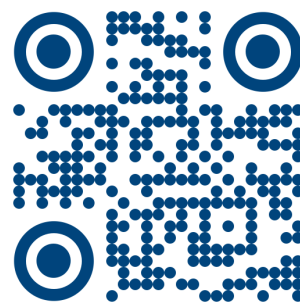
3 CREDITS

This course continues developing students' abilities to use research and writing to make informed conclusions. In addition, the course develops students' skills to communicate these conclusions to professional and expert audiences. Emphasis is placed on honing skills of audience analysis, analytical reading, critical thinking, research methods, and persuasive writing. Also, this course will introduce students to patterns and conventions of multiple disciplinary communities. Prerequisite(s): ENG 100 or ENG 101.

### **DDT 110 Mechanical Dimn and Tolerancing**

4 CREDITS (NON-CORE 42)

This course focuses on the interpretation and application of American National Standards Institute (ANSI) and American Society of Mechanical Engineers (ASME) Y14.5M current drafting standards and rules for dimensioning and tolerancing mechanical prints utilizing a computer aided drafting system. Prerequisite(s): Recommend concurrent enrollment in DDT 100 for all DDT majors.



### **HST 120 U.S. History I: to 1865**

3 CREDITS

This course is a survey of the history of the United States from pre-Columbian societies through the Civil War, including formative political, social, economic and cultural developments. It also introduces students to history as an academic discipline and requires analysis, synthesis and evaluation of primary and secondary materials in reading, discussion and writing. HST 120 will satisfy the Missouri state law requiring instruction in the United States and Missouri Constitutions.

### **HST 130 U.S. History II: 1865 to Present**

3 CREDITS

This course is a survey of the history of the United States from Reconstruction to the present, covering the political, economic, social and cultural developments that have shaped modern America. It introduces students to history as an academic discipline and requires analysis, synthesis and evaluation of primary and secondary materials in reading, discussion and writing. HST 130 will satisfy the Missouri state law requiring instruction in the United States and Missouri Constitutions.

### **MTH 128 Contemporary Mathematics**

3 CREDITS

This course provides students with a basic survey of mathematics. Topics include problem solving, sets, counting methods, probability, statistics and geometry. MTH 130 is for students pursuing math, science, engineering and four-year business degrees only. MTH 128 is recommended for most other majors and careers.

### **MTH 130 College Algebra**

3 CREDITS

This course is a standard course in college level algebra. Topics include properties of functions; polynomial, rational, exponential, logarithmic functions and their graphs; and matrices.

### **MUS 105 Western Music Appreciation**

3 CREDITS

Western Music Appreciation explores the development of music from the Medieval Period to the present. Through this class students gain skills to listen and understand different types of classical music. The elements of music, music history and the relation of music and culture are explored through recorded and live performances of music.

### **PHL 101 Introduction to Philosophy**

3 CREDITS

This course examines some of the questions and arguments which have influenced the western tradition of philosophical inquiry. Among the areas of philosophy we will explore are epistemology (What can I know?), metaphysics (What is real?), ethics (What makes a right action right?), philosophy of religion, and social and political philosophy.

### **PHY 105 Introduction to Physics**

4 CREDITS

This course provides an introduction to basic physics. Students will apply the principles of mechanics, energy, waves, matter and atomic theory. Laboratory activities will give students the opportunity to demonstrate physics principles presented in lecture. A previous college level math course is recommended. Knowledge of algebra, scatter plot graphing, slope and equation of the line, scientific notation, and unit conversions is also recommended.

### **PHY 110 Introduction to Geology**

4 CREDITS

This course is an introduction to basic geology. Students learn about the principles and applications of mineralogy, petrology, structural geology, geomorphology and historical geology. Laboratory skills necessary for the study of geology are introduced. A previous college level course is recommended.

### **PHY 115 Introduction to Astronomy**

4 CREDITS

This course provides an introduction to basic astronomy. Students will learn about the composition, dynamics, evolution of planets, stars, and the universe. Laboratory activities will give students the opportunity to demonstrate physics principles presented in lecture. One evening field trip is required. A previous college level math course is recommended.

### **PLS 101 American Government and Politics**

3 CREDITS

This introductory course familiarizes students with American and Missouri government constitutions, institutions, policies and processes. Students develop an understanding of the foundations, environment, and principles of democracy with key concepts about voting,

political parties, campaigns, and interactions between the branches of government. The course emphasis is on the values, rights, and responsibilities that shape public decision making of active and informed citizens in the American political system. This course meets instruction requirements (Missouri Revised Statute 170.011.1) in the Constitution of the United States and the state of Missouri.

### **PSY 110 Introduction to Psychology**

3 CREDITS

This course provides an introduction to psychology including history and systems, physiology, human growth and development, sensation and perception, learning, memory, emotion, motivation, personality, adjustment, psychopathology, industrial and social psychology. ENG 101 is recommended prior to PSY 110 and SOC 101.

### **SOC 101 Introduction to Sociology**

3 CREDITS

This course is an inquiry into the nature of society, the foundation of group life, institutions, structure of society and the role of the individual as a group member. Emphasis on implications for social change is encouraged. ENG 101 is recommended prior to PSY 110 and SOC 101.

### **SPN 101 Spanish I**

3 CREDITS

This course covers the essentials of pronunciation, verb construction, vocabulary, and speech patterns through aural-oral practice. This course serves as introduction to Spanish speaking cultures. Class will be conducted in Spanish to the extent that is practical.

### **SPN 102 Spanish II**

3 CREDITS

This course is a continuation of Beginning Spanish I. Pronunciation, verb construction, vocabulary and speech patterns will be emphasized. This course serves as introduction to Spanish-speaking cultures. Class will be conducted entirely in Spanish. Prerequisite(s): Grade of "C" or better in SPN 101 .